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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2019-12-02-02** **Date: 18/12/2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : Dasarahalli Sub Division. BBMP, Bangalore.

**Project Name** : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

**Agency** : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

**Customer's Reference** : EE/SWD/DHZ/WO/05/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-11-18

**Customer ID** : M25 Concrete (D)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M25 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/12/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 149.05 X 150.26 X 149.72 | 22396 | **8.993** | 614.6 | 27.4 | 27.7 |
| 2 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 149.46 X 151.79 X 151.04 | 22686 | **8.969** | 608.0 | 26.8 | |
| 3 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 149.26 X 150.99 X 151.88 | 22538 | **8.522** | 648.9 | 28.8 | |

**Note:**
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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2019-12-02-02 **Date: 27/11/2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

**Agency** : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

**Customer's Reference** : EE/SWD/DHZ/WO/05/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-11-18

**Customer ID** : M25 Concrete (D)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M25 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 27/11/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 150.57 X 150.00 X 150.82 | 22586 | 8.046 | 529.6 | 23.4 | 22.9 |
| 2 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 149.64 X 150.47 X 150.19 | 22515 | 8.919 | 500.1 | 22.2 | |
| 3 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 151.25 X 149.51 X 151.65 | 22614 | 9.058 | 518.5 | 22.9 | |

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿ.ಬಿ.ಎಮ್.ಪಿ. ಬೆಂಗಳೂರು

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**Quality Manager**

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# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| Lab ID | : | CP-2019-12-02-02 **Date: 18/12/2018** |
| Customer | : | Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. |
| Address | : | Dasarahalli Sub Division, BBMP, Bangalore. |
| Project Name | : | Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12. |
| Agency | : | Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133. |
| Customer's Reference | : | EE/SWD/DHZ/WO/05/2017-18 |
| Source of Sample | : | Sample supplied by Agency |
| Sample Condition | : | Satisfactory |
| Date of Receipt | : | 22-11-18 |
| Customer ID | : | M25 Concrete (D) |
| Sample Type /Size | : | 150X150X150 mm |
| Sample grade/Age | : | M25 / 28 Days Compressive Strength |
| Reference to BIS codes | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |

Date of test : 18/12/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 149.17 X 151.08 X 149.44 | 22536 | 8.356 | 622.6 | 27.6 | 27.8 |
| 2 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 149.67 X 149.62 X 149.94 | 22394 | 8.584 | 601.0 | 26.8 | |
| 3 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 150.29 X 149.67 X 150.30 | 22494 | 8.925 | 652.2 | 29.0 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2019-12-02-02** **Date: 27/11/2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

**Agency** : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

**Customer's Reference** : EE/SWD/DHZ/WO/05/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-11-18

**Customer ID** : M25 Concrete (D)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M25 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 27/11/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 151.43 X 151.34 X 150.57 | 22918 | 8.046 | 538.4 | 23.5 | 22.7 |
| 2 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 149.62 X 150.85 X 149.17 | 22571 | 8.919 | 499.4 | 22.1 | |
| 3 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 150.27 X 151.84 X 151.85 | 22816 | 9.058 | 511.6 | 22.4 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2019-12-02-02** **Date: 18/12/2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

**Agency** : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

**Customer's Reference** : EE/SWD/DHZ/WO/05/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-11-18

**Customer ID** : M25 Concrete (D)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M25 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 18/12/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 149.65 X 151.25 X 150.99 | 22634 | 9.055 | 617.7 | 27.3 | 27.5 |
| 2 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 151.74 X 151.37 X 150.63 | 22969 | 8.360 | 618.0 | 26.9 | |
| 3 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 150.34 X 151.86 X 150.08 | 22832 | 8.368 | 643.5 | 28.2 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2019-12-02-02** **Date: 27/11/2018**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

**Agency** : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

**Customer's Reference** : EE/SWD/DHZ/WO/05/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 22-11-18

**Customer ID** : M25 Concrete (D)

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M25 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 27/11/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 151.06 X 149.14 X 149.07 | 22529 | 8.046 | 540.4 | 24.0 | 23.0 |
| 2 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 150.39 X 151.65 X 151.14 | 22806 | 8.919 | 513.6 | 22.5 | |
| 3 | M25 Concrete (D) | M25 | 20/11/2018 | 27/11/2018 | 149.70 X 149.13 X 149.85 | 22326 | 9.058 | 504.3 | 22.6 | |

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Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

| | | |
|---|---|---|
| *Lab ID* | : | **CP-2019-12-02-02** **Date: 18/12/2018** |
| *Customer* | : | Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. |
| *Address* | : | Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12. |
| **Agency** | : | Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133. |
| **Customer's Reference** | : | EE/SWD/DHZ/WO/05/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 22-11-18 |
| **Customer ID** | : | M25 Concrete (D) |
| **Sample Type /Size** | : | 150X150X150 mm |
| **Sample grade/Age** | : | M25 / 28 Days Compressive Strength |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5 |

**Date of test** : 18/12/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 151.76 X 150.58 X 151.59 | 22852 | 8.482 | 634.5 | 27.8 | 27.5 |
| 2 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 151.00 X 151.02 X 150.18 | 22804 | 8.810 | 597.2 | 26.2 | |
| 3 | M25 Concrete (D) | M25 | 20/11/2018 | 18/12/2018 | 149.37 X 150.16 X 149.58 | 22430 | 8.202 | 640.6 | 28.6 | |

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**Quality Manager**

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## TEST RESULTS FOR CHAIN LINK FENCING

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2019-12-02-02** **Date: 13-11-18** |
| **Customer** | : | Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12. |
| **Agency** | : | Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133. |
| **Customer's Reference** | : | EE/SWD/DHZ/WO/05/2017-18 |
| **Sourse of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 12-11-18 |
| **Type of Sample** | : | Chain Link Fencing |
| **Reference to BIS codes** | : | IS 2062:2011 |
| **Date of testing** | : | 12-11-18 |

| TESTS RESULT FOR WIRE MESH | | |
|---|---|---|
| **SL.NO** | **Description** | **Result** |
| 1 | **Average Thickness in mm** | 4.04 |
| 2 | **Dia of linewire in mm** | 3.14 |
| 3 | **Mesh size in mm** | 50.01 |
| 4 | **Nominaldia of meshwire in mm** | 2.52 |
| 5 | **Bend Test** | Satisfactory |

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# TEST RESULTES FOR MS BLOCK PIPE

**Lab ID** : **CP-2019-12-02-02** **Date: 15-11-18**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : Dasarahalli Sub Division, BBMP, Bangalore.

**Agency** : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

**Project Name** : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

**Customer's Reference** : EE/SWD/DHZ/WO/05/2017-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 14-11-18

**Type of Sample** : M.S Block Pipe

**Reference to BIS codes** : IS:1608-2005(RA 2011), IS 1599-2012, IS:2062:2011

**Date of testing** : 14-11-18

**TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE**

| Sl. No | Description | Result | Required as per as IS Code 2062: 2011 | Remarks |
|---|---|---|---|---|
| 1 | Yeild Stress (N/mm2) | 299 | 250N/mm$^2$ | Satisfactory |
| 2 | Tensile Strength (N/mm2) | 509 | 410N/mm$^2$ | Satisfactory |
| 3 | Elongation Percentage (%) | 24 | Min 23% | Satisfactory |

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# TEST RESULTES FOR MS RECTANGULAR POLE

**Lab ID** : **CP-2019-12-02-02** **Date: 17-11-18**

**Customer** : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Construction of RCC Culvert and U Shape Drain for Secondary SWD Drains near Divya Enginering Works at Kammagondanahalli in Ward No.12.

**Agency** : Smt K.Jayamma, #H No: 74, Behind Grama Panchayat Office, Sgnabhog Layout, Dasanapura, Bangalore-562133.

**Customer's Reference** : EE/SWD/DHZ/WO/05/2017-18

**Sourse of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 16-11-18

**Type of Sample** : M.S Rectangular Pole(65X65X6)mm

**Reference to BIS codes** : IS:1608-2005(RA 2011), IS 1599-2012, IS 2062:2011

**Date of testing** : 16-11-18

**TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER**

| SL.NO | Description | Result | Required as per IS Code 2062:2011 | Remarks |
|---|---|---|---|---|
| 1 | Weight/Meter (Kg /m) | 5.81 | 5.8 Kg/m | Satisfactory |
| 2 | Yeild stress (N/mm2) | 278 | 250N/mm$^2$ | Satisfactory |
| 3 | Tensile Strength (N/mm2) | 485 | 410N/mm$^2$ | Satisfactory |
| 4 | Elongation Percentage (%) | 23.5 | Min23% | Satisfactory |
| 5 | Bend Test | Satisfactory | Should not Crack or fracture | Satisfactory |

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ಬೃಹತ್ ಮಳೆ ನೀರುಗಾಲುವೆ ಉಪ-ವಿಭಾಗ,
ಸಾಸರಹಳ್ಳಿ ವಲಯ, ಬಿ.ಬಿ.ಎಮ್.ಪಿ. ಬೆಂಗಳೂರು

FOR CIVIL Pro
**R KARTHIK RECHAN**
**Authorized Signatory**
**Quality Manager**

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****End of Report****

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